



BEST AVAILABLE COPY

PATENT  
Customer No. 22,852  
Attorney Docket No. 9960.0002-01

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: )  
 )  
Keith Henry Stockman Campbell et al. ) Group Art Unit: 1632  
 )  
Serial No.: 09/225,233 ) Examiner: D. Crouch  
 )  
Filed: January 4, 1999 ) Confirmation No.: 2711  
 )  
For: QUIESCENT CELL POPULATIONS FOR NUCLEAR TRANSFER

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

**TERMINAL DISCLAIMER**

Assignee, Roslin Institute (Edinburgh), represents that it is the assignee of the entire right, title and interest in and to the instant application, Application No. 09/225,233, filed January 4, 1999, as evidenced by assignments recorded at Reel 8622, Frames 0299-300 (copy attached); Reel 9219, Frames 0945-0951 (copy attached); and by an assignment attached hereto.

Assignee, Roslin Institute (Edinburgh), further represents that it is the assignee of the entire right, title and interest in and to U.S. Patent No. 6,252,133, as evidenced by assignments recorded at Reel 8582, Frames 0263-0264 (copy attached); Reel 9220, Frames 0250-0256 (copy attached); and by an assignment attached hereto.

To obviate a double patenting rejection, assignee hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the instant application, which would extend beyond the expiration date of the full statutory

term defined in 35 U.S.C. §§ 154 to 156 and 173, as presently shortened by any terminal disclaimer, of prior patent No. 6,252,133. Assignee hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and the prior patent are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns.

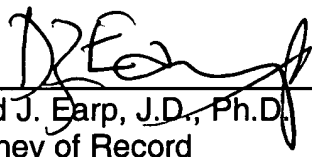
In making the above disclaimer, Assignee does not disclaim the terminal part of any patent granted on the instant application that would extend to the expiration date of the full statutory term as defined in 35 U.S.C. §§ 154 to 156 and 173 of the prior patent, as presently shortened by any terminal disclaimer, in the event that the prior patent later expires for failure to pay a maintenance fee, is held unenforceable, is found invalid by a court of competent jurisdiction, is statutorily disclaimed in whole or in part, is terminally disclaimed under 37 C.F.R. § 1.321, has all claims canceled by a reexamination certificate, is reissued, or is in any manner terminated prior to the expiration of its full statutory term as presently shortened by any terminal disclaimer.

In accordance with the fee schedule set forth in 37 C.F.R. § 1.20(d), the required fee of \$130.00 is being filed with this disclaimer.

The undersigned is an attorney of record.

Respectfully submitted,

Dated: March 17, 2006

By:   
David J. Earp, J.D., Ph.D.  
Attorney of Record  
Reg. No. 41,401  
Tel: (650) 473-7721  
Fax: (650) 473-8654



08-07-1997

RECEIVED

JUL 29 1997

FORM PTO-1506  
1-11-9

DOCKET NO.: 2980-004



100505082

RECEIPT ACCOUNTING UNIT

DEPARTMENT OF COMMERCE  
Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereto

## 1. Name of conveying party(ies)

Keith Henry Stockman CAMPBELL and Ian WILLIAMS

Additional name(s) of conveying party(ies) attached? Yes X No

## 3. Nature of conveyance

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other

Execution Date: May 23, 1997

## 2. Name and address of receiving party(ies)

Name: Roslin Institute (Edinburgh)

Internal Address:

Street Address: RoslinCity: Midlothian EH125 9PS State/Country: GREAT BRITAIN  
ZIP:Additional name(s) & address(es) attached? Yes X No

## 4. Application number(s) or patent number(s)

If the document is being filed together with a new application, the execution date of the application is:

A. Patent Application No(s): 08/802,282, filed February 19, 1997

B. Patent No(s):

Additional numbers attached? Yes X No

## 5. Name and address of party to whom correspondence concerning document should be mailed

Name: LOWE PRICE LEBLANC & BECKER

Internal Address:

Street Address: 99 Canal Center Plaza, Suite 300City: Alexandria State: VA ZIP: 223146. Total number of applications and patents involved: 17. Total fee (37 CFR 3.11) \$40.00☐ Enclosed☒ Authorized to be charged to deposit account

## 8. Deposit account number:

12-2237

DO NOT USE THIS SPACE

## 9. Statement and signature.

*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.*

Robert L. Price 22,685

Name and Registration No. of Person Signing

Signature

July 29, 1997

Date

Total number of pages comprising cover sheet: 11997 MAR 08 08:00:00 P11:18:2237 08802282  
40.00 CHPATENT  
REEL: 8622 FRAME: 0299

# ASSIGNMENT

In consideration of the premises and other good and valuable consideration in hand paid, the receipt and sufficiency of which is hereby acknowledged, the undersigned:

I, Kevin Henry Stockman Campbell

I, Ian Wilmut

do hereby make a certain new and useful invention, hereby sell, assign and transfer unto

Roslin Institute (Edinburgh), Roslin, Midlothian EH25 9PS, Great Britain

its successors and assigns hereinafter designated "ASSIGNEE" the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100 in the invention entitled:

QUIESCENT CELL POPULATIONS FOR NUCLEAR TRANSFER

for which an application for United States Letters Patent was filed on February 19, 1997, and identified by United States Serial No. 08 802,282, or

for which an application for United States Letters Patent was executed on May 22 1997

and the undersigned hereby authorize and request the United States Commissioner of Patents and Trademarks to issue any and all United States Letters Patent which may be granted therefor and any and all extensions, divisions, reissues, substitutes, renewals, continuations or continuations-in-part thereof, and the right to all benefits under the International Convention for the Protection of Industrial Property to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives. The undersigned agree that the attorney of record in said application shall hereafter act on behalf of said ASSIGNEE.

AND the undersigned hereby agree to transfer a like interest, and to render all necessary assistance in making application for and obtaining original, divisional, reissued or extended Letters Patent of the United States, upon request of the said ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, in and to any improvements, and applications for patent based thereon, growing out of or related to the said invention; and to execute any papers by the said ASSIGNEE, its successors, assigns and legal representatives, deemed essential to ASSIGNEE's full protection and title in and to the invention hereby transferred.

SIGNED on the dates indicated aside our signatures

INVENTORS

DATE SIGNED

Name: Kevin Henry Stockman Campbell

Name: Ian Wilmut

Name: \_\_\_\_\_

Name: \_\_\_\_\_

Name: \_\_\_\_\_

Name: \_\_\_\_\_

May 23 1997



06-10-1998



100733738

RECORDATION

ET

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark OfficeFOR 4 PTO-1596  
1-31-92

DOCKET NO.: 2980-004

PATENTS ONLY

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereto:

1. Name of conveying party(ies):

ROSLIN INSTITUTE (EDINBURGH)

2. Name and address of receiving party(ies):

Name: Roslin Institute (Edinburgh)

Internal Address:

Additional name(s) of conveying party(ies) attached? Yes ☒ No

3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ OtherStreet Address: RoslinCity: Midlothian EH25 9PS State/Country: GREAT BRITAIN ZIP:Execution Date: March 26, 1998 and April 7, 1998Additional name(s) & address(es) attached? ☒ Yes ☐ No

4. Application number(s) or patent number(s):

If the document is being filed together with a new application, the execution date of the application is:

A. Patent Application No(s). 08/803,282, filed February 19, 1997

B. Patent No(s).

Additional numbers attached? Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Gilberto M. Villacorta, PEPPER HAMILTON LLP

Internal Address:

Street Address: 1300 Nineteenth St., N.W.City: Washington, D.C.State: ZIP: 200366. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41)

\$40.00☐ Enclosed☒ Authorized to be charged to deposit account

8. Deposit account number:

50-0436

06/08/1998 DR:UYEN 00000167 500436 00003282

DO NOT USE THIS SPACE

01 FC:581 40.00 CH

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Gilberto M. Villacorta, 34,038

Name and Registration No. of Person Signing

Signature

May 29, 1998

Date

Total number of pages comprising cover sheet: 2

CMB No. 0851-0011 (exp. 4/94)

Document # 71087

PATENT  
REEL: 9219 FRAME: 0945



**DOCKET NO.: 2980-004**

**Continuation of Recordation Cover Sheet, Item # 2:**

The Minister of Agriculture, Fisheries and Food  
Notel House  
17 Smith Square  
London, SW1P 3JR

Bio-technology and Biological Sciences Research Council  
Polaris House  
North Star Avenue  
Swindon, SN2 1UH

**PATENT ASSIGNATION**

by

**(1) ROSLIN INSTITUTE (EDINBURGH).**

in favour of

**ROSLIN INSTITUTE (EDINBURGH); THE MINISTER OF AGRICULTURE,  
FISHERIES AND FOOD; and BIOTECHNOLOGY and BIOLOGICAL SCIENCES  
RESEARCH COUNCIL**

**1998**

**Wright Johnston & Mackenzie  
Solicitors  
12 St Vincent Place  
Glasgow G1 2EQ**

**(Ref: A00020016/KMC/JCH)**

**PATENT  
REEL: 9219 FRAME: 0947**

## PATENT ASSIGNATION

by



- (1) **ROSLIN INSTITUTE (EDINBURGH)**, incorporated under the Companies Acts as a company limited by guarantee with registered number 157100 and having its registered office at Roslin, Midlothian, EH25 9PS ("the Assignor")

in favour of

- (2) **ROSLIN INSTITUTE (EDINBURGH)**, incorporated under the Companies Acts as a company limited by guarantee with registered number 157100 and having its registered office at Roslin, Midlothian, EH25 9PS and **THE MINISTER OF AGRICULTURE, FISHERIES AND FOOD** of Nobel House, 17 Smith Square, London, SW1P 3JR acting through the Ministry of Agriculture, Fisheries and Food; and **BIOTECHNOLOGY and BIOLOGICAL SCIENCES RESEARCH COUNCIL**, whose principal office is at Polaris House, North Star Avenue, Swindon, SN2 1UH (collectively referred to as "the Assignees")

### WHEREAS

- (A) The Assignor is the proprietor of the Patent Applications set out in the Schedule annexed and executed as relative hereto (the "Patent Applications");
- (B) The Assignor has agreed to assign the Patent Applications to the Assignees; and
- (C) The Assignees have agreed to hold the Patent Applications and any granted patents issuing from such applications subject to a Co-Ownership Agreement to be entered into of even date herewith by the parties to this Agreement.

NO'V IT IS HEREBY AGREED as follows:-

#### 1. Assignment

The Assignor hereby assigns to the Assignees as joint owners the entire right, title and interest of the Assignor in and to the Patent Applications and any patents or other similar forms of protection granted pursuant to the Patent Applications together with the right to recover and to take all such proceedings as may be necessary for the



recovery of damage and other forms or relief in respect of all infringements of the Patent Applications whether taking place before or after the date of this Assignment.

## 2. Further Assurance

Each party agrees generally to sign, seal, execute and deliver all documents, deeds, licences and agreements and to do all acts and things which may be required or may be deemed necessary that any party for giving effect to this Assignment including, without limitation, entry into instruments confirmatory of such rights for registration with appropriate authorities anywhere in the world.

## 3. Governing Law

This Agreement shall be governed by Scots Law and the parties agree to submit to the non exclusive jurisdiction of the Scottish Courts: IN WITNESS WHEREOF these presents consisting of this and the preceding page together with the Schedule annexed hereto are executed as follows:-

Subscribed for and on behalf of BIOTECHNOLOGY AND BIOLOGICAL SCIENCES RESEARCH COUNCIL by Scott McGregor Lawrie their duly authorised signatory at London on 26<sup>th</sup> March 1998 before the following witness:-

Witness: Justine A. Strong  
 Full Name: JUSTINE ANN STRONG  
 Address: 12, ST VINCENT PLACE  
GLASGOW  
 Occupation: TRAINEE SOLICITOR

Scott McGregor Lawrie  
 Authorised Signatory

Subscribed for and on behalf of THE MINISTER OF AGRICULTURE, FISHERIES AND FOOD by Dr Anthony Richard Burne, duly authorised signatory at London on 26<sup>th</sup> March 1998 before the following witness:-

Witness: Marilyn Wicks  
 Full Name: MRS. MARILYN WICKS  
 Address: ST. CHRISTOPHER HOUSE  
SOUTHWARK ST, LONDON  
 Occupation: CIVIL SERVANT.

Dr Anthony Richard Burne  
 Authorised Signatory

PATENT

REFL: 9219 FRAME: 0949

Subscribed for and on behalf of ROSLIN INSTITUTE (EDINBURGH) by Professor  
Grahame John Bulfield, Director and Chief Executive, at Roslin on 7th April  
1992 before the following witness:-

Witness: Alan A. Nair

Full Name: CLARE ANNE NEWSON

Address: 12 ST. VINCENT PLACE

GLASGOW

Occupation: SOLICITOR

Grahame Bulfield

This is the Schedule referred to in the Assignment by (1) Roslin Institute (Edinburgh) in favour of (2) Roslin Institute (Edinburgh); The Minister of Agriculture, Fisheries and Food; and Biotechnology and Biological Sciences Research Council

**1. Inactivated Oocytes and Cytoplasm Recipients for Nuclear Transfer (MAGIC)**

Filing Date	Priority Date	Country	Application No
30 <sup>th</sup> August 1996	31 <sup>st</sup> August 1995	International	PCT/GB96/02098
30 <sup>th</sup> August 1996	31 <sup>st</sup> August 1995	South Africa	96/7383
30 <sup>th</sup> August 1996	31 <sup>st</sup> August 1995	USA	08/803,165

International Patent Application - proceeding in:

Czech Republic, Hungary, Norway, Poland, Russian Federation, Ukraine, Canada, Brazil, Mexico, Cuba, Australia, China, Israel, Japan, Republic of Korea, New Zealand, Singapore, Vietnam, United Kingdom, Hong Kong, Europe (Austria, Belgium, Switzerland/Liechtenstein, Germany, Denmark, Spain, Finland, France, United Kingdom, Greece, Ireland, Italy, Luxembourg, Monaco, Netherlands, Portugal, Sweden).

**2. Quiescent Cell Populations for Nuclear Transfer (Quiescence)**

Filing Date	Priority Date	Country	Application No
30 <sup>th</sup> August 1996	31 <sup>st</sup> August 1995	International	PCT/GB96/02099
30 <sup>th</sup> August 1996	31 <sup>st</sup> August 1995	South Africa	96/7390
30 <sup>th</sup> August 1996	31 <sup>st</sup> August 1995	USA	08/802,282

International Patent Application - proceeding in:

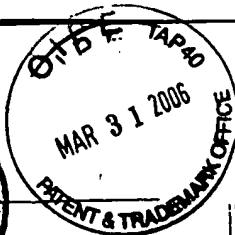
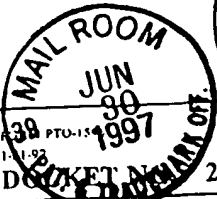
Czech Republic, Hungary, Norway, Poland, Russian Federation, Ukraine, Canada, Brazil, Mexico, Cuba, Australia, China, Israel, Japan, Republic of Korea, New Zealand, Singapore, Vietnam, United Kingdom, Hong Kong, Europe (Austria, Belgium, Switzerland/Liechtenstein, Germany, Denmark, Spain, Finland, France, United Kingdom, Greece, Ireland, Italy, Luxembourg, Monaco, Netherlands, Portugal, Sweden).

Scott M. Levine

Alma

RECORDED: 05/29/1998

PATENT  
REEL: 9219 FRAME: 0951



07-14-1997

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office39 PTO-154  
11-93  
Docket No. 2980-003

100454558

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereto:

## 1. Name of conveying party(ies):

Keith Henry Stockman CAMPBELL and Ian WILLIOT

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

## 3. Nature of conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other

Execution Date: May 13, 1997

## 2. Name and address of receiving party(ies):

Name: Roslin Institute (Edinburgh)

Internal Address

Street Address: RoslinCity: Midlothian EH25 9J'S State/Country: GREAT BRITAIN  
ZIP:Additional name(s) & address(es) attached? ☐ Yes ☒ No

## 4. Application number(s) or patent number(s):

If the document is being filed together with a new application, the execution date of the application is:

A. Patent Application No(s). 08/803,165, filed February 19, 1997

B. Patent No(s)

Additional numbers attached? ☐ Yes ☒ No

## 5. Name and address of party to whom correspondence concerning document should be mailed:

Name: LOWE PRICE LEBLANC & BECKER

Internal Address:

Street Address: 99 Canal Center Plaza, Suite 300City: Alexandria State: VA ZIP: 223146. Total number of applications and patents involved: 17. Total fee (37 CFR 3.41) ..... \$40.00☐ Enclosed☒ Authorized to be charged to deposit account

## 8. Deposit account number:

12-2237

DO NOT USE THIS SPACE

## 9. Statement and signature.

*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.*Robert L. Price, 22,685

Name and Registration No. of Person Signing

Robert L. Price

Signature

June 30, 1997

Date

Total number of pages comprising cover sheet: 1

CMB No. 0851-0011 (exp. 4/94)

07/10/1997 TTON11  
01 FC:58100000035 DAN:122237 08803165  
40.00 CHPATENT  
REEL: 8582 FRAME: 0263

ASSIGNMENT

In consideration of the premises and other good and valuable consideration in hand paid, the receipt and sufficiency of which is hereby acknowledged, the undersigned,

(1) Keith Henry Stockman Campbell (4) \_\_\_\_\_  
 (2) Ian Wilmut (5) \_\_\_\_\_  
 (3) \_\_\_\_\_ (6) \_\_\_\_\_

who have made a certain new and useful invention, hereby sell, assign and transfer unto

Roslin Institute (Edinburgh), Roslin, Midlothian EH25 9PS, Great Britain

its successors and assigns (hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100 in the invention entitled

UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER

(a) for which an application for United States Letters Patent was filed on February 19, 1997, and identified by United States Serial No. 08/803,165; or

(b) for which an application for United States Letters Patent was executed on May 13<sup>th</sup> 1997

and the undersigned hereby authorize and request the United States Commissioner of Patents and Trademarks to issue any and all United States Letters Patent which may be granted therefor and any and all extensions, divisions, reissues, substitutes, renewals, continuations, or continuations-in-part thereof, and the right to all benefits under the International Convention for the Protection of Industrial Property to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree that the attorneys of record in said application shall hereafter act on behalf of said ASSIGNEE;

AND the undersigned hereby agree to transfer a like interest, and to render all necessary assistance in making application for and obtaining original, divisional, reissued or extended Letters Patent of the United States, upon request of the said ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, in and to any improvements, and applications for patent based thereon, growing out of or related to the said invention; and to execute any papers by the said ASSIGNEE, its successors, assigns and legal representatives, deemed essential to ASSIGNEE's full protection and title in and to the invention hereby transferred.

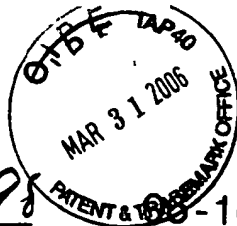
SIGNED on the dates indicated aside our signatures:

INVENTORS	DATE SIGNED
1) <u>Name: Keith Henry Stockman Campbell</u> <i>KHC Campbell</i>	<u>13.05.97.</u>
2) <u>Name: Ian Wilmut</u> <i>I Wilmut</i>	<u>May 13 1997</u>
3) <u>Name:</u>	_____
4) <u>Name:</u>	_____
5) <u>Name:</u>	_____
6) <u>Name:</u>	_____

RECORDED: 06/30/1997

PATENT  
 REEL: 8582 FRAME: 0264

MRD 5-29-98



6-10-1998

FORM PTO-1596  
1-31-92

DOCKET NO.: 2980-003

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

100733314

To the Honorable Commissioner of Patents and Trademarks

Original documents or copy thereto:

## 1. Name of conveying party(ies):

ROSLIN INSTITUTE (EDINBURGH)

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

## 3. Nature of conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other

Execution Date: March 26, 1998 and April 7, 1998

## 2. Name and address of receiving party(ies):

Name: Roslin Institute (Edinburgh)

Internal Address:

Street Address: RoslinCity: Midlothian EH25 9PS State/Country: GREAT BRITAIN ZIP:Additional name(s) & address(es) attached? ☒ Yes ☐ No

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B. Patent No(s).

Additional numbers attached? ☐ Yes ☒ No

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Name: Gilberto M. Villacorta, PEPPER HAMILTON LLP

Internal Address:

Street Address: 1300 Nineteenth St., N.W.City: Washington, D.C.

State:

ZIP: 200366. Total number of applications and patents involved: 17. Total fee (37 CFR 3.41) ..... \$40.00☐ Enclosed☒ Authorized to be charged to deposit account

## 8. Deposit account number:

50-0436

06/08/1998 DMBUTEN 00000171 300438 08803183

01 FC:58 40.00 CH

DO NOT USE THIS SPACE

## 9. Statement and signature.

*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.*Gilberto M. Villacorta, 34,038

Name and Registration No. of Person Signing

Signature

May 29, 1998

Date

Total number of pages comprising cover sheet: 2

CMB No. 0851-0011 (exp. 4/94)

Document # 71087

PATENT  
REEL: 9220 FRAME: 0250



**DOCKET NO.: 2980-003**

**Continuation of Recordation Cover Sheet, Item # 2:**

The Minister of Agriculture, Fisheries and Food  
Nobel House  
17 Smith Square  
London, SW1P 3JR

Biotechnology and Biological Sciences Research Council  
Polaris House  
North Star Avenue  
Swindon, SN2 1UH

**PATENT ASSIGNATION**

by

**(1) ROSLIN INSTITUTE (EDINBURGH),**

in favour of

**ROSLIN INSTITUTE (EDINBURGH); THE MINISTER OF AGRICULTURE,  
FISHERIES AND FOOD; and BIOTECHNOLOGY and BIOLOGICAL SCIENCES  
RESEARCH COUNCIL**

1998

Wright Johnston & Mackenzie  
Solicitors  
12 St Vincent Place  
Glasgow G1 2EQ

(Ref: A00020016/KMC/JCH)

**PATENT**  
**REEL: 9220 FRAME: 0252**



## PATENT ASSIGNATION

by



- (1) **ROSLIN INSTITUTE (EDINBURGH)**, incorporated under the Companies Acts as a company limited by guarantee with registered number 157100 and having its registered office at Roslin, Midlothian, EH25 9PS ("the Assignor")

in favour of

- (2) **ROSLIN INSTITUTE (EDINBURGH)**, incorporated under the Companies Acts as a company limited by guarantee with registered number 157100 and having its registered office at Roslin, Midlothian, EH25 9PS and **THE MINISTER OF AGRICULTURE, FISHERIES AND FOOD** of Nobel House, 17 Smith Square, London, SW1P 3JR acting through the Ministry of Agriculture, Fisheries and Food; and **BIOTECHNOLOGY and BIOLOGICAL SCIENCES RESEARCH COUNCIL**, whose principal office is at Polaris House, North Star Avenue, Swindon, SN2 1UH (collectively referred to as "the Assignees")

### WHEREAS

- (A) The Assignor is the proprietor of the Patent Applications set out in the Schedule annexed and executed as relative hereto (the "Patent Applications");
- (B) The Assignor has agreed to assign the Patent Applications to the Assignees; and
- (C) The Assignees have agreed to hold the Patent Applications and any granted patents issuing from such applications subject to a Co-Ownership Agreement to be entered into of even date herewith by the parties to this Agreement.

NOW IT IS HEREBY AGREED as follows:-

#### 1. Assignment

The Assignor hereby assigns to the Assignees as joint owners the entire right, title and interest of the Assignor in and to the Patent Applications and any patents or other similar forms of protection granted pursuant to the Patent Applications together with the right to recover and to take all such proceedings as may be necessary for the

recovery of damage and other forms or relief in respect of all infringements of the Patent Applications whether taking place before or after the date of this Assignment.

## 2. Further Assurance

Each party agrees generally to sign, seal, execute and deliver all documents, deeds, licences and agreements and to do all acts and things which may be required or may be deemed necessary that any party for giving effect to this Assignment including, without limitation, entry into instruments confirmatory of such rights for registration with appropriate authorities anywhere in the world.

## 3. Governing Law

This Agreement shall be governed by Scots Law and the parties agree to submit to the non exclusive jurisdiction of the Scottish Courts: IN WITNESS WHEREOF these presents consisting of this and the preceding page together with the Schedule annexed hereto are executed as follows:-

Subscribed for and on behalf of BIOTECHNOLOGY AND BIOLOGICAL SCIENCES RESEARCH COUNCIL by Scott McGregor Lawrie their duly authorised signatory at London on 26<sup>th</sup> March 1998 before the following witness:-

Witness: Justine A Strong

Full Name: JUSTINE ANN STRONG

Address: 12, ST VINCENT PLACE

GLASGOW

Occupation: TRAINEE SOLICITOR

Scott McGregor Lawrie  
Authorised Signatory

Subscribed for and on behalf of THE MINISTER OF AGRICULTURE, FISHERIES AND FOOD by Dr Anthony Richard Burne, duly authorised signatory at London on 26<sup>th</sup> March 1998 before the following witness:-

Witness: Marylyn Wicks

Full Name: MRS. MARYLYN WICKS

Address: ST. CHRISTOPHER HOUSE Authorised Signatory

SOUTHWARK ST, LONDON

Occupation: CIVIL SERVANT.

PATENT

REEL: 9220 FRAME: 0254

Subscribed for and on behalf of ROSLIN INSTITUTE (EDINBURGH) by Professor  
Grahame John Bulfield, Director and Chief Executive, at Roslin on 7<sup>th</sup> April  
1992 before the following witness:-

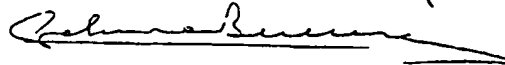
Witness: Cian A. Neill

Full Name: CLARE ANNE NEILSON

Address: 12 ST VINCENT PLACE

GLASGOW

Occupation: SOLICITOR



This is the Schedule referred to in the Assignment by (1) Roslin Institute (Edinburgh) in favour of (2) Roslin Institute (Edinburgh); The Minister of Agriculture, Fisheries and Food; and Biotechnology and Biological Sciences Research Council

**1. Unactivated Oocytes and Cytoplasm Recipients for Nuclear Transfer (MAGIC)**

Filing Date	Priority Date	Country	Application No
30 <sup>th</sup> August 1996	31 <sup>st</sup> August 1995	International	PCT/GB96/02098
30 <sup>th</sup> August 1996	31 <sup>st</sup> August 1995	South Africa	96/7383
30 <sup>th</sup> August 1996	31 <sup>st</sup> August 1995	USA	08/803,165

**International Patent Application - proceeding in:**

Czech Republic, Hungary, Norway, Poland, Russian Federation, Ukraine, Canada, Brazil, Mexico, Cuba, Australia, China, Israel, Japan, Republic of Korea, New Zealand, Singapore, Vietnam, United Kingdom, Hong Kong, Europe (Austria, Belgium, Switzerland/Liechtenstein, Germany, Denmark, Spain, Finland, France, United Kingdom, Greece, Ireland, Italy, Luxembourg, Monaco, Netherlands, Portugal, Sweden).

**2. Quiescent Cell Populations for Nuclear Transfer (Quiescence)**

Filing Date	Priority Date	Country	Application No
30 <sup>th</sup> August 1996	31 <sup>st</sup> August 1995	International	PCT/GB96/02099
30 <sup>th</sup> August 1996	31 <sup>st</sup> August 1995	South Africa	96/7390
30 <sup>th</sup> August 1996	31 <sup>st</sup> August 1995	USA	08/802,282

**International Patent Application - proceeding in:**

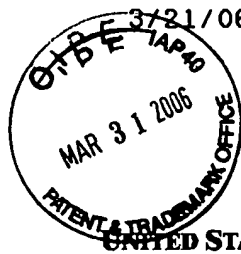
Czech Republic, Hungary, Norway, Poland, Russian Federation, Ukraine, Canada, Brazil, Mexico, Cuba, Australia, China, Israel, Japan, Republic of Korea, New Zealand, Singapore, Vietnam, United Kingdom, Hong Kong, Europe (Austria, Belgium, Switzerland/Liechtenstein, Germany, Denmark, Spain, Finland, France, United Kingdom, Greece, Ireland, Italy, Luxembourg, Monaco, Netherlands, Portugal, Sweden).

*Scott M. Levine - 8/25/96*

*Alma*

*Shelby*  
RECORDED: 05/29/1998

PATENT  
REEL: 9220 FRAME: 0256



## UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND  
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

MARCH 21, 2006

PTAS  
FINNEGAN, HENDERSON, FARABOW, GARRETT &  
LLP  
901 NEW YORK AVENUE, NW  
WASHINGTON, DC 20001-4413

**\*700250393A\*****\*700250393A\***

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RECORDATION DATE: 03/14/2006

REEL/FRAME: 017336/0136  
NUMBER OF PAGES: 10

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).  
DOCKET NUMBER: 9960.0002-02

## ASSIGNOR:

ROSLIN INSTITUTE (EDINBURGH)

DOC DATE: 06/30/2003

## ASSIGNOR:

SECRETARY OF STATE FOR  
ENVIRONMENT, FOOD & RURAL  
AFFAIRS

DOC DATE: 06/30/2003

## ASSIGNOR:

BIOTECHNOLOGY AND BIOLOGICAL  
SCIENCES RESEARCH COUNCIL  
(BBSRC)

DOC DATE: 05/22/2003

017336/0136 PAGE 2

## ASSIGNEE:

ROSLIN (EDINBURGH)  
ROSLIN  
MIDLOTHIAN, EH25 9PS, UNITED  
KINGDOM

SERIAL NUMBER: 08802282 FILING DATE: 02/19/1997  
PATENT NUMBER: 6147276 ISSUE DATE: 11/14/2000  
TITLE: QUIESCENT CELL POPULATIONS FOR NUCLEAR TRANSFER IN THE PRODUCTION  
OF NON-HUMAN MAMMALS AND NON-HUMAN MAMMALIAN EMBRYOS

SERIAL NUMBER: 08803165 FILING DATE: 02/19/1997  
PATENT NUMBER: 6252133 ISSUE DATE: 06/26/2001  
TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS OF NUCLEI FROM  
QUIESCENT AND NON-QUIESCENT CELLS WHILE MAINTAINING CORRECT PLOIDY

SERIAL NUMBER: 09225233 FILING DATE: 01/04/1999  
PATENT NUMBER: ISSUE DATE:  
TITLE: QUIESCENT CELL POPULATIONS FOR NUCLEAR TRANSFER

SERIAL NUMBER: 09658862 FILING DATE: 09/08/2000  
PATENT NUMBER: ISSUE DATE:  
TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER

SERIAL NUMBER: 09650194 FILING DATE: 08/29/2000  
PATENT NUMBER: ISSUE DATE:  
TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER

SERIAL NUMBER: 09650285 FILING DATE: 08/29/2000  
PATENT NUMBER: 6525243 ISSUE DATE: 02/25/2003  
TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS OF QUIESCENT CELL  
NUCLEI WHILE MAINTAINING CORRECT PLOIDY

SERIAL NUMBER: 09973701 FILING DATE: 10/11/2001  
PATENT NUMBER: ISSUE DATE:  
TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER

SERIAL NUMBER: 09989125 FILING DATE: 11/21/2001  
PATENT NUMBER: ISSUE DATE:  
TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER

SERIAL NUMBER: 09989128 FILING DATE: 11/21/2001  
PATENT NUMBER: ISSUE DATE:  
TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER

SERIAL NUMBER: 09989126 FILING DATE: 11/21/2001  
PATENT NUMBER: ISSUE DATE:  
TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER

SERIAL NUMBER: 10118337 FILING DATE: 04/09/2002

TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER



017336/0136 PAGE 3

SERIAL NUMBER: 10151304 FILING DATE: 05/21/2002  
PATENT NUMBER: ISSUE DATE:  
TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER

SERIAL NUMBER: 10151305 FILING DATE: 05/21/2002  
PATENT NUMBER: ISSUE DATE:  
TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER

SERIAL NUMBER: 10190611 FILING DATE: 07/09/2002  
PATENT NUMBER: ISSUE DATE:  
TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER

SERIAL NUMBER: 10190617 FILING DATE: 07/09/2002  
PATENT NUMBER: ISSUE DATE:  
TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER

SERIAL NUMBER: 10234854 FILING DATE: 09/05/2002  
PATENT NUMBER: ISSUE DATE:  
TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER

SERIAL NUMBER: 10914161 FILING DATE: 08/10/2004  
PATENT NUMBER: ISSUE DATE:  
TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER

SERIAL NUMBER: 10915338 FILING DATE: 08/11/2004  
PATENT NUMBER: ISSUE DATE:  
TITLE: QUIESCENT CELL POPULATIONS FOR NUCLEAR TRANSFER

SERIAL NUMBER: 10909845 FILING DATE: 08/03/2004  
PATENT NUMBER: ISSUE DATE:  
TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER

SERIAL NUMBER: 11068903 FILING DATE: 03/02/2005  
PATENT NUMBER: ISSUE DATE:  
TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER

SERIAL NUMBER: 08802282 FILING DATE: 02/19/1997  
PATENT NUMBER: 6147276 ISSUE DATE: 11/14/2000  
TITLE: QUIESCENT CELL POPULATIONS FOR NUCLEAR TRANSFER IN THE PRODUCTION  
OF NON-HUMAN MAMMALS AND NON-HUMAN MAMMALIAN EMBRYOS

SERIAL NUMBER: 08803165 FILING DATE: 02/19/1997  
PATENT NUMBER: 6252133 ISSUE DATE: 06/26/2001  
TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS OF NUCLEI FROM  
QUIESCENT AND NON-QUIESCENT CELLS WHILE MAINTAINING CORRECT PLOIDY

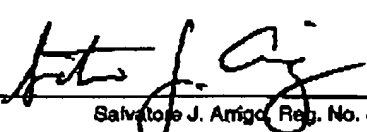
SERIAL NUMBER: 09650285 FILING DATE: 08/29/2000

TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS OF QUIESCENT CELL  
NUCLEI WHILE MAINTAINING CORRECT PLOIDY

017336/0136 PAGE 4

SHAREILL COLES, EXAMINER  
ASSIGNMENT SERVICES BRANCH  
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<div style="display: flex; justify-content: space-between;"> <div> RECORDATION COVER SHEET  PATENTS ONLY </div> <div> U.S. Department of Commerce  Patent and Trademark Office  Attorney Docket No. 9960.0002-02  Attorney Customer Number: 22,552 </div> </div>			
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Additional name(s) of conveying party(ies) attached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No See Attachment A		Internal Address: Roslin	
3. Nature of conveyance:		Street Address:	
<input checked="" type="checkbox"/> Assignment	<input type="checkbox"/> Merger	City: Midlothian, EH26 9PS	
<input type="checkbox"/> Security Agreement	<input type="checkbox"/> Change of Name	State: The United Kingdom	Zip Code: [Text]
<input type="checkbox"/> Joint Research Agreement	<input type="checkbox"/> Government Interest Assignment	Additional name(s) & Address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
<input type="checkbox"/> Executive Order 9494, Confirmatory License	<input type="checkbox"/> Other:		
Execution Date: [Date(s)]: (1) June 30, 2003 (2) June 10, 2003 (3) May 22, 2003			
4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application: [Type appropriate information]			
A. Patent Application Number(s): 08/802,282 08/803,185		B. Patent Number(s): 6,147,276 6,262,133 6,525,243	
Additional numbers attached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		See Attachment B <input type="checkbox"/> No	
5. Name and address of party to whom correspondence concerning document should be mailed:		6. Total number of applications and patents involved: 23	
Name:		7. Total fee (37 CFR 1.21(h) and 3.41): \$40 <input type="checkbox"/> Enclosed (Please charge deficiency or credit overpayment to deposit account 08-0918) <input checked="" type="checkbox"/> Authorized to be charged to deposit account	
Internal Address: FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNN, LLP.			
Street Address: 801 New York Avenue, N.W.			
City: Washington, D.C.			
State: Zip: 20001-4413		8. Deposit Account No.: 08-0918	
9. Statement and signature.			
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Signed: 		3/14/06 Date	
Salvatore J. Amico, Reg. No. 48,063			
Total number of pages including cover sheet, attachments and documents: 10			

**1. (continued) Attachment A: Additional Conveying Parties**

- (2) Secretary of State for Environment, Food & Rural Affairs (**Dated: June 10, 2003**)  
("The Secretary of State") acting through the  
Department for the Environment, Food & Rural Affairs ("DEFRA")  
formerly known as the Ministry for Agriculture Fisheries and Food ("MAFF")
- (3) Biotechnology and Biological Sciences Research Council ("BBSRC")  
(**Dated: May 22, 2003**)

**4. (continued) Attachment B Patent Application Nos.****A. U.S. Patent Application/Serial No.**

09/225,233  
09/658,862  
09/650,194  
09/650,285  
09/973,701  
09/989,125  
09/989,128  
09/989,126  
10/118,337  
10/151,304  
10/151,305  
10/190,611  
10/190,617  
10/234,854  
10/914,161  
10/915,338  
10/909,845  
11/068,903

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